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WHAT IS CLAIMED IS:

1. A vehicle-mounted millimeter wave radar device that detects objects by sending out millimeter waves, comprising:

a millimeter wave generation means for generating millimeter waves;

an antenna means for sending out said millimeter waves;

a substrate that is provided with wiring and said millimeter wave generation means;

an enclosure that is joined to said substrate to enclose said millimeter wave generation means and the surrounding space on said substrate in cooperation with said substrate; and

a resin that covers the joint between said enclosure and said substrate at least.

- 2. The vehicle-mounted millimeter wave radar device according to claim 1, comprising means for preventing outflow of said resin, wherein said antenna means is provided on a surface of said substrate opposite to the surface mounting said millimeter wave generation means.
- 3. The vehicle-mounted millimeter wave radar device according to claim 1, wherein said space is filled with an inert gas.
 - 4. The vehicle-mounted millimeter wave radar device

according to claim 1, wherein said enclosure includes means for moisture absorption.

5. A millimeter wave radar module equipped with at least one MMIC for millimeter waves which is mounted on a multilayer substrate,

wherein a patch antenna circuit is formed on a surface of said multilayer substrate; said MMIC are provided on the remaining surface; said multilayer substrate is housed in a case which input/output signal terminals is put through; a hollow cap for protecting said MMIC is joined to the surface on which said MMIC is provided, and said cap is covered with a moisture resistance resin.

- 6. The millimeter wave radar module according to claim 5, wherein a cover covers said moisture resistance resin.
- 7. The millimeter wave radar module according to claim 5, wherein said case is made of a conductive material; the circumference of said input/output signal terminals is made of an insulation material, and said input/output signal terminals are put through said case with said insulation material.
- 8. The millimeter wave radar module according to claim 5, wherein said multilayer substrate is integral with said case.

- 9. The millimeter wave radar module according to claim 5, wherein said MMIC is provided on said multilayer substrate, and said patch antenna circuit is formed by a separate member.
- 10. The millimeter wave radar module according to claim 5, wherein said multilayer substrate is not planar structure but shaped so as to contain a space, and wherein a flat cover is joined to said multilayer substrate so as to provide a hollow storage space for said MMIC.
- 11. The millimeter wave radar module according to claim 5, wherein said storage space for said MMIC houses a moisture absorbent.
- 12. The millimeter wave radar module according to claim 5, wherein said storage space for said MMIC is filled with an inert gas.
- 13. The millimeter wave radar module according to claim 5, wherein said multilayer substrate is made of either an inorganic material or an organic material.
- 14. The millimeter wave radar module according to claim 5, wherein said hollow cap and said multilayer substrate are joined by an organic material using as an adhesive.
- 15. The millimeter wave radar module according to claim 5, wherein said moisture resistance resin is a gelled organic resin.

16. A method for manufacturing a millimeter wave radar module that sends out radar waves generated by at least one MMIC via an antenna pattern, the method comprising the steps of:

mounting said MMIC on a substrate with wiring;
enclosing said MMIC by joining a cap containing a
hollow to said substrate in such a manner as to position
said MMIC in said hollow; and

covering said the joint between said cap and said substrate at least with a gel.

- 17. The method according to claim 16, wherein said juncture is performed in a nitrogen gas atmosphere.
- 18. The method according to claim 16, wherein said substrate is provided with a wall that forms an enclosure, and wherein said gel is filled into said enclosure after said juncture.